

ProtoQuote[®] Part Advisory

Part #: 08052012_EGG_REVAMPED_surfaces

Upload Date: 8/6/2012

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Required Changes

[1. Undercut](#)

[2. Draft needed](#)

[3. Minimum thickness](#)

Moldability Advisory

[4. Thin area](#)

[5. Thick area](#)

[6. Texture](#)

[7. Texture](#)

Other Info

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Undercut

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Faces shown in red have undercut portions. Blue lines (if any) indicate undercut regions. We are unable to produce these undercuts with the current Protomold process. For details, clarification, options, or alternatives, please contact a Customer Service Engineer at customerservice@protolabs.com or 877.479.3680.

An updated file is needed to make this part.

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2.0° minimum draft is required on faces with arrows. When adding draft to these features, please maintain the minimum thickness indicated by the color code below:

 minimum thickness = 0.098 in

Arrows indicate the pull direction for faces in the mold. Draft and wall thickness should be added to these faces to enable machining of the mold and to facilitate ejection of the part from the mold. If these changes are not made we may not be able to make a mold for your parts or to eject the parts from the mold. If the indicated draft and wall thickness cannot be added to your model, please apply as much as you can and call us. For details, clarification, options, or alternatives, please contact a Customer Service Engineer at customerservice@protolabs.com or 877.479.3680.



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The part has thin features that need to be increased in thickness to the minimum thickness as indicated by the color code below:

-  minimum thickness = 0.026 in
-  minimum thickness = 0.051 in

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Yellow color coding indicates areas where part thickness is significantly less than nominal. These areas may have fill problems, weak weld-lines, through-holes or significant texture variations. See the [Recommended Wall Thickness by Resin](#) page and the [Uniform Wall Thickness](#) page for guidelines. For details, clarification, options, or alternatives, please contact a [Customer Service Engineer](#) at customerservice@protolabs.com or call 877.479.3680.

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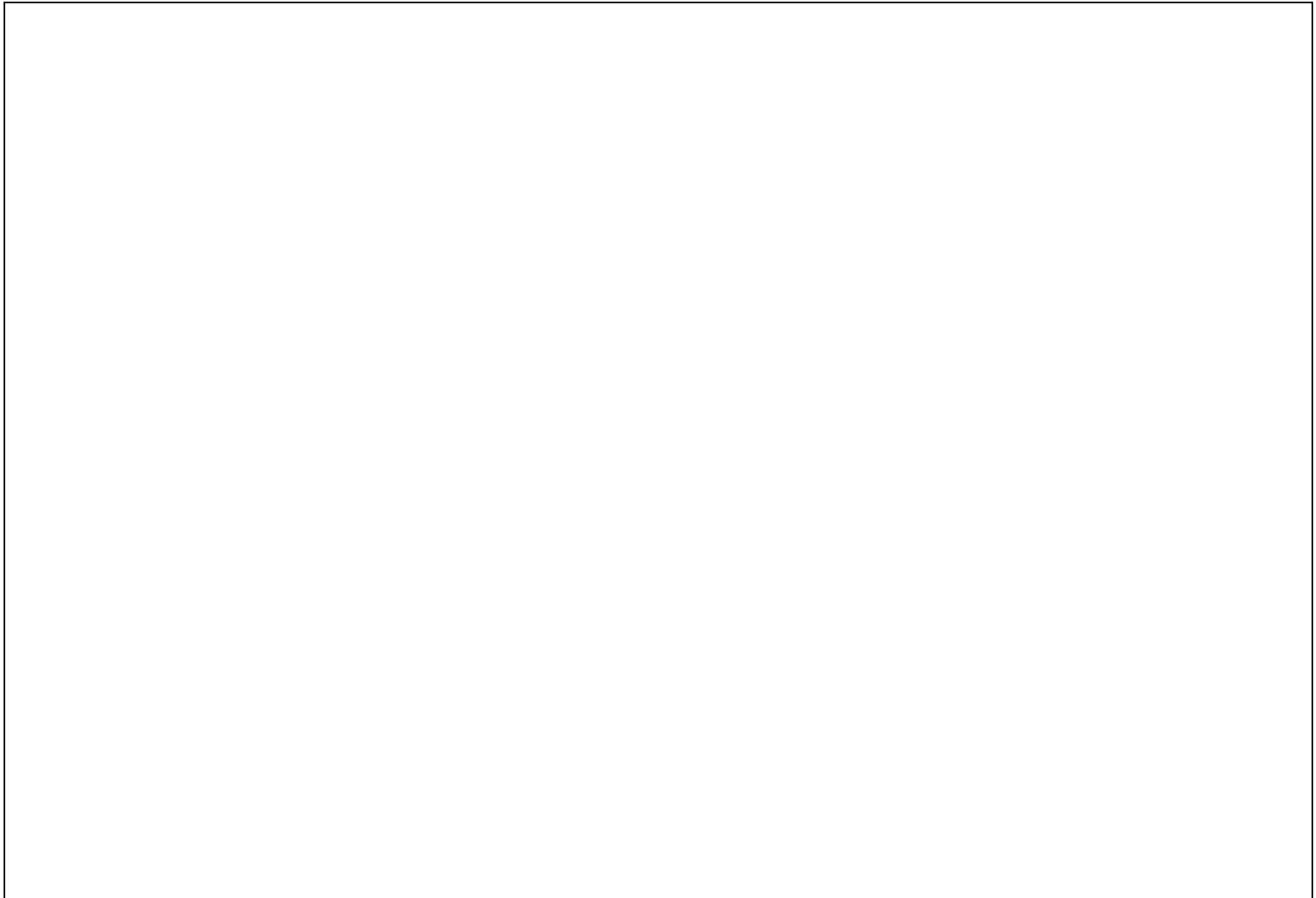
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Dark blue color coding indicates areas where part thickness is significantly greater than nominal. Sink marks, voids, and excessive shrink are possible in these areas. Warp of these and other areas of the part may occur. See the [Recommended Wall Thicknesses by Resin Types](#) page and [Uniform Wall Thickness](#) page for design guidelines. For details, clarification, options, or alternatives, please contact a [Customer Service Engineer](#) at customerservice@protolabs.com or call 877-479-3680.

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If you choose a textured finish on your part: PM-T1 (light bead blast texture) generally requires at least 3 degrees of draft, and PM-T2 (medium bead blast texture) generally requires at least 5 degrees of draft. Faces colored red have a draft of less than 3 degrees, and faces colored yellow have a draft of 3-5 degrees. If you do want a textured finish on these faces, we recommend adding additional draft to avoid possible drag marks, cosmetic flaws, missing texture, and to assist in proper ejection of the part.

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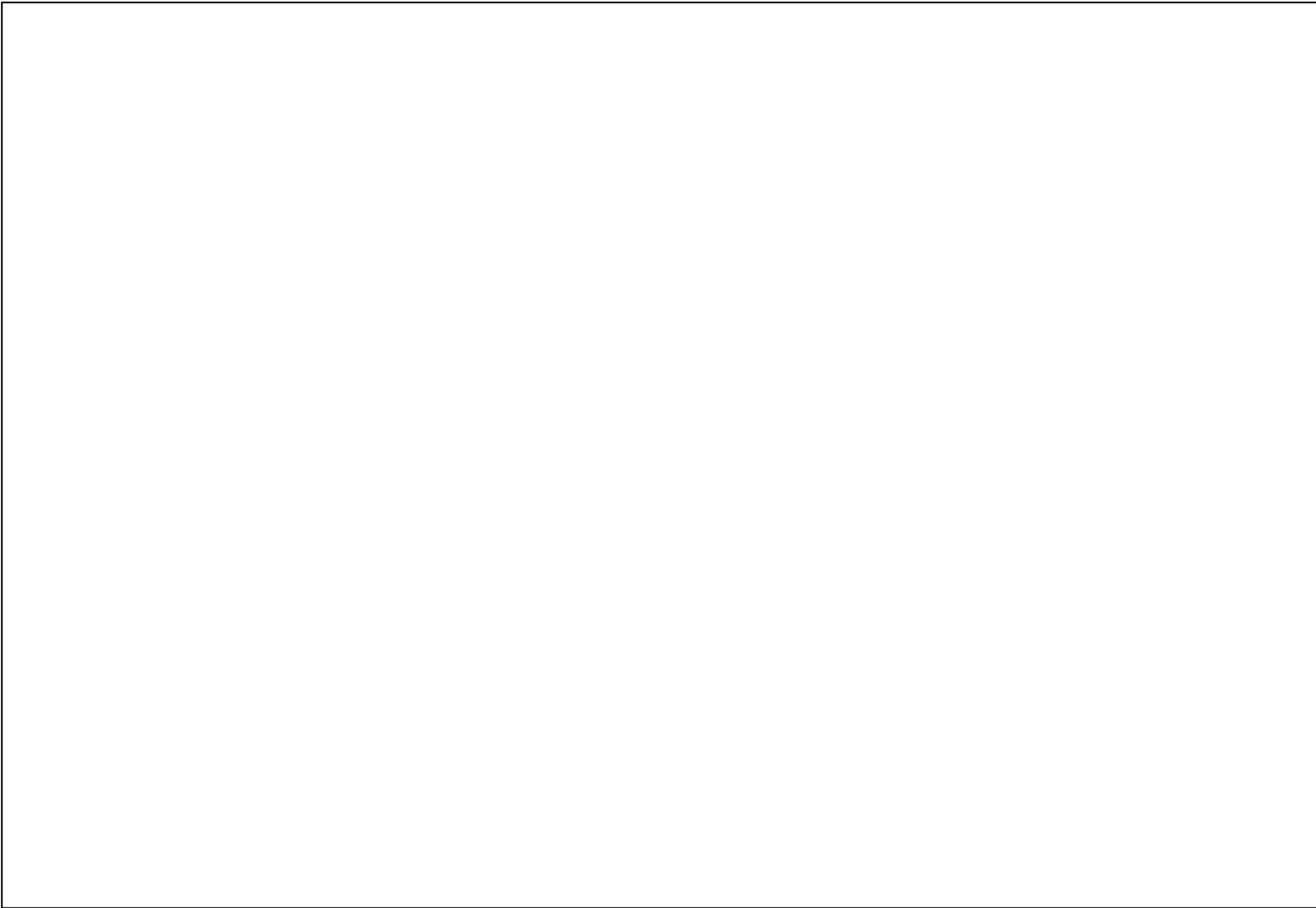
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Radius

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Corners that will have a radius due to the milling process are color coded as follows:

- radius = 0.008 in
- radius = 0.011 in
- radius = 0.016 in
- radius = 0.023 in

- unformed features

Note: This part has features that will not be fully formed (see dark red areas).




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Corners that will have a radius due to the milling process are color coded as follows:

-  radius = 0.011 in
-  radius = 0.016 in
-  radius = 0.023 in

-  unformed features

Note: This part has features that will not be fully formed (see dark red areas).

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Side pull

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Solid arrows and faces with corresponding colors indicate undercut features that will be formed by using side pull cores.